

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets

(11)

Publication number:

**0 271 206
A3**

(12)

EUROPEAN PATENT APPLICATION

(21)

Application number: **87309802.4**

(51)

Int. Cl.⁵: **B66D 3/20, B66D 1/38**

(22)

Date of filing: **05.11.87**

(30)

Priority: **19.11.86 GB 8627684**

(43)

Date of publication of application:
15.06.88 Bulletin 88/24

(64)

Designated Contracting States:
AT BE CH DE ES FR GB GR IT LI LU NL SE

(68)

Date of deferred publication of the search report:
13.06.90 Bulletin 90/24

(71)

Applicant: **BELLWAY (SERVICES) LIMITED**
Horsley House Regent Centre
Gosforth Newcastle upon Tyne NE3 3LU(GB)

(72)

Inventor: **Hofmann, Dietrich Adolf**
Half Moon House
Kirkwhelpington Northumberland(GB)
Inventor: **O'Connell, Geoffrey William**
The Croft
Belford Northumberland(GB)
Inventor: **Norman, Michael Eric**
The Glebe Farmhouse
Prudhoe Northumberland(GB)

(74)

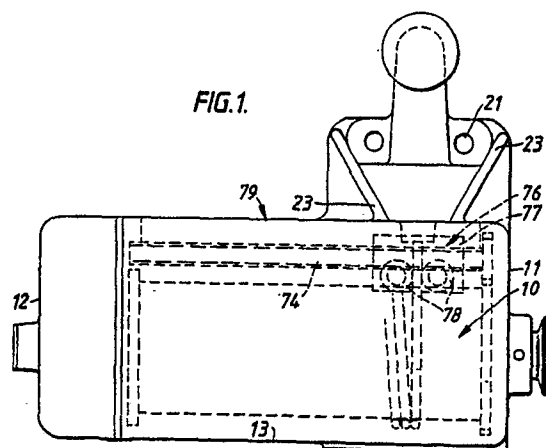
Representative: **Evans, David Charles et al**
F.J. CLEVELAND & COMPANY 40-43,
Chancery Lane
London, WC2A 1JQ(GB)

(54)

Vehicle winch.

(57) The invention relates to a winch for a vehicle which is compact enough to be located at the rear of the vehicle without causing due limitation to the cross country ability of the vehicle and yet at the same time, provides a reliable winch for drawing a vehicle to be towed to it and enabling the coupling member to be physically secured to the vehicle when the cable is in the fully wound position. The winch comprises a housing (10), a drum (31) rotatable about its axis within the housing (10), a cable having a coupling member (24) at a bitter end thereof, said cable being adapted to wound upon said drum (31), characterised by the motor means being disposed within the drum itself, a guide member being provided for movement relative to the winding surface of the drum for guiding the cable opening in the housing (10) to a winding surface of the drum for lowering the cable thereon during winding without significant bunching of the cable and in that coupling means includes a nesting portion which locates a nest in a corresponding cooperating portion carried by or within the housing when the cable is in the

fully wound position.



EP 0 271 206 A3



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Y	EP-A-0 136 017 (J. STEEL) * page 9, lines 16-24; figures 1,2 * ---	1-3,6,8	B 66 D 1/38 B 66 D 3/20
Y	GB-A-2 048 201 (J.H. CARRUTHERS & COMPANY LTD.) * page 1, line 92 - page 2, line 42; figures 1,3 * ---	1-3,6,8	
A	DE-A-3 442 138 (RHEIN-GETRIEBE GMBH) * page 4, lines 20-25; figure 1 * ---	9	
A	DE-C- 438 528 (A. HOFFMANN) * claim 1; figure 1 * -----	7	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B 66 D B 60 D
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 19-03-1990	Examiner WESTERMAYER W G
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	